

AES TONE GENERATOR 812-OP/M



MADE IN THE USA



For Future Generations

The GenFlex 812-OP/M is a high performance 24 bit digital audio generator. The 812-OP/M is a single module for use with the SPG-812 GenFlex frame. The function of this module is to produce a single AES/EBU digital audio signal for use as a digital tonesource or as a digital audio timing reference.

The generator has a set of features designed to make it fit into a wide variety of applications. These features include genlocking of the audio to digital or analog video within the Genflex frame. Also, the user may select to have this module free run with its high stability oscillator. Internally, the creation of the audio tone is done with a 24 bit audio "wave table" stored in ROM. The output from the ROM is formatted and output as digital audio. The user may select the amplitude and frequency of the audio tone from a fixed set of 8 combinations. Within this set of eight there are three frequencies (1KHz, 400Hz, 60Hz) and three levels (0dBFS, -10dBFS, -20dBFS)* The module has the ability to produce "digital silence" or one of the eight combinational tones on the output.

There are three digital outputs conforming with the AES3-ID interconnection standard. This generator runs at the professional sample rate frequency of 48kHz. LEDs are used to indicate tone frequency and level, digital silence, lock status, and power indication. Further, the user has control of some of the user status bits through dip switches on the module.

The GenFlex audio generator is built with quality throughout the unit. With its ability to produce 24 bit digital audio, it can produce the highest resolution audio available in the AES3 format. The 812-OP/M is an addition to Link's GenFlex family of analog/digital generator products. It is designed to reside in LINK'S SPG-812 frame in any of the five auxiliary slots with a possible total of five modules plus one 812-OP/E audio module.

* 60Hz tone has 2 levels (0dBFS and -20dBFS). The other tones have three levels.

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812-OP/M DIGITAL TONE GENERATION

SPECIFICATIONS

Type digital, wave table
Resolution 24 bits
Sample Rate 48kHz

DIGITAL OUTPUT

Interconnection
Number Three
Standard AES3-ID
Connector BNC
Impedance 75 ohms
Level 1Vpp \pm 0.2V
Jitter < 0.08UIpp

Tone Data
Type Sine Wave
Frequencies 1kHz, 400Hz, 60Hz
Nominal Levels
Audible 0dBFS, -10dBFS**, -20dBFS
Digital Silence -144dBFS***
Level Accuracy \pm 0dB
Total Harmonic Distortion < 0.0007%
Total Harmonic Distortion + Noise < 0.0002%

ENVIRONMENTAL

Operational Temperature Range 0 to 60°C ambient
Humidity 10% to 90% non-condensing
Power >3W
Supply Voltage +5VDC, provided by SPG-812 frame

MECHANICAL

Dimensions
Length 10.0 inches
Width 4.27 inches
Height 0.50 inch maximum
Weight 6.0 OZ.

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